

CLAIMS

1. Artificial intervertebral disc, comprising a nucleus of flexible material with the shape of a flattened body, with a lower and an upper side connected by a lateral surface, around which at least substantially radially oriented windings of a traction-resistant fibre have been applied.
2. Intervertebral disc according to claim 1, wherein the lower and the upper side are of a rounded shape, preferably of a circular or ellipsoid shape.
3. Intervertebral disc according to claim 1 or 2, wherein the windings substantially run along geodetic lines across the surface of the nucleus.
4. Intervertebral disc according to any one of claims 1-3, wherein the fibres have a tensile strength of at least 1 GPa and a modulus of at least 10 GPa.
5. Intervertebral disc according to any one of claims 1-4, wherein the fibres consist of polyethylene.
6. Intervertebral disc according to any one of claims 1-5, wherein are also present windings of a traction-resistant fibre which run completely across the lateral surface.
7. Intervertebral disc according to any one of claims 1-6, wherein between the nucleus and the fibres a fabric is present along at least the lateral surface and at least a part of the lower side and a part of the upper side.
8. Intervertebral disc according to claim 7, wherein the fabric consists of traction-resistant fibres.
9. Intervertebral disc according to claim 8, wherein the fibres have a tensile strength of at least 1 GPa and a modulus of at least 10 GPa.